

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **HBLED-LD5-18HE-W-CLI-UNV-L740-ED2-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CLI-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

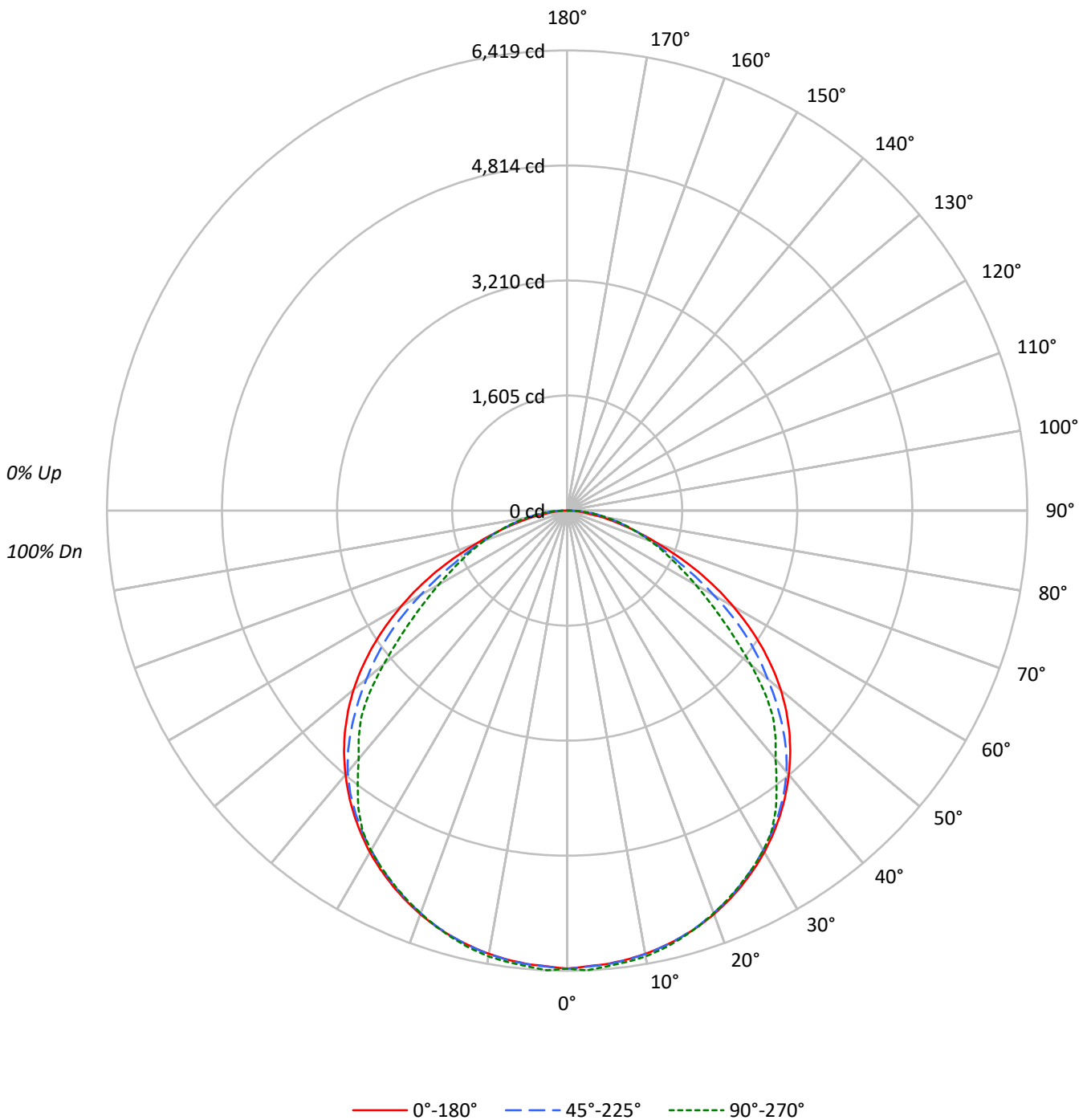
Lumens per Lamp: N/A
Luminaire Lumens: 17167.0 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8597	8597	8597
5°	8574	8580	8619
10°	8579	8583	8628
15°	8580	8579	8599
20°	8578	8558	8560
25°	8565	8533	8523
30°	8551	8499	8504
35°	8511	8458	8338
40°	8450	8364	7942
45°	8343	8076	7723
50°	8142	7646	6994
55°	7772	7151	6184
60°	7212	6380	5577
65°	6410	5524	5128
70°	5320	4937	4834
75°	4303	4518	4574
80°	3418	4321	4303
85°	2677	4642	4429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.0	3.5
10°-20°	1743.0	10.2
20°-30°	2657.8	15.5
30°-40°	3215.5	18.7
40°-50°	3257.0	19.0
50°-60°	2692.0	15.7
60°-70°	1778.0	10.4
70°-80°	927.1	5.4
80°-90°	290.7	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5006.7	29.2
0°-40°	8222.2	47.9
0°-60°	14171.2	82.5
0°-90°	17167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6390	6390	6390	6390	6390	
5°	6348	6387	6353	6380	6381	604
15°	6160	6191	6159	6178	6173	1739
25°	5769	5792	5748	5762	5741	2660
35°	5182	5188	5149	5142	5076	3241
45°	4384	4373	4244	4112	4058	3376
55°	3313	3264	3048	2752	2636	2953
65°	2014	1955	1735	1622	1611	1989
75°	828	842	869	881	880	902
85°	173	223	301	298	287	210
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6389.7	6389.7	6389.7	6389.7	6389.7
2.5°	6362.8	6400.4	6368.9	6396.6	6418.8
5°	6348.2	6386.6	6352.8	6380.4	6381.2
7.5°	6319.9	6358.2	6323.7	6351.3	6350.5
10°	6279.2	6315.2	6282.3	6315.2	6315.2
12.5°	6224.0	6259.3	6227.0	6257.7	6253.1
15°	6159.5	6191.0	6158.8	6177.9	6173.3
17.5°	6083.6	6112.0	6075.9	6092.0	6082.8
20°	5990.8	6016.9	5977.0	5997.7	5978.5
22.5°	5886.5	5911.0	5870.4	5885.7	5864.2
25°	5769.1	5792.1	5747.6	5762.2	5740.7
27.5°	5642.5	5663.2	5613.4	5631.0	5614.2
30°	5503.7	5513.7	5470.7	5493.7	5473.8
32.5°	5348.7	5354.9	5317.3	5338.0	5304.3
35°	5181.5	5188.4	5149.3	5142.4	5076.4
37.5°	5002.8	5005.9	4969.0	4906.9	4798.0
40°	4811.0	4809.5	4761.9	4618.5	4521.9
42.5°	4606.2	4605.5	4521.9	4358.5	4303.2
45°	4384.5	4373.0	4244.2	4112.2	4058.5
47.5°	4146.8	4134.5	3954.2	3849.1	3727.2
50°	3889.8	3868.3	3652.8	3509.3	3341.3
52.5°	3612.9	3579.9	3360.5	3128.9	2970.1
55°	3313.0	3263.9	3048.3	2752.2	2636.4
57.5°	3000.8	2927.9	2718.5	2430.1	2335.7
60°	2680.1	2598.8	2371.0	2134.0	2072.6
62.5°	2350.3	2269.7	2037.3	1858.6	1824.8
65°	2013.5	1955.2	1735.1	1622.3	1610.8
67.5°	1668.4	1647.7	1479.7	1422.1	1417.5
70°	1352.3	1348.5	1254.9	1225.8	1228.8
72.5°	1080.8	1076.2	1062.4	1047.8	1048.6
75°	827.7	842.2	869.1	880.6	879.8
77.5°	617.5	647.4	704.2	727.2	723.3
80°	441.1	485.6	557.7	579.1	555.4
82.5°	293.8	340.6	425.7	428.8	409.6
85°	173.4	223.2	300.7	298.4	286.9
87.5°	85.9	134.2	180.3	172.6	164.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)